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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,256			Matthias Wiesner	613242000800	2422
25225	7590	7590 11/30/2006		EXAMINER	
MORRISO	N & FOE	ERSTER LLP	YOUNG, SHAWQUIA		
12531 HIGH SUITE 100	I BLUFF I	DRIVE	ART UNIT	PAPER NUMBER	
SAN DIEGO), CA 92	130-2040	1626		

DATE MAILED: 11/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			cation No.	Applicant(s)	Applicant(s)				
Office Action Summary			9,256	WIESNER ET AL.					
			iner	Art Unit					
			quia Young	1626					
Period fo	The MAILING DATE of this commun or Reply	ication appears on	the cover sheet t	with the correspondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status					·				
1)	Responsive to communication(s) file	d on							
•—		2b)⊠ This action	is non-final.						
3)	Since this application is in condition	for allowance exc	ept for formal ma	atters, prosecution as to the	e merits is				
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠	Claim(s) 1-24 is/are pending in the a	pplication.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
,	Claim(s) is/aic anowed. Claim(s) 1,3-9,11,12,19-21 and 23 is/are rejected.								
	Claim(s) 2,10,13-18,22 and 24 is/are				,				
•	Claim(s) are subject to restrict	-	on requirement.						
Applicati	ion Papers								
	, -	- Francisco							
/—	The specification is objected to by the The drawing(s) filed on is/are:		or b\□ objected to	n by the Evaminer	•				
10)	Applicant may not request that any object	•	· · · · · · · · · · · · · · · · · · ·	•					
					FR 1 121(d)				
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
	•			· &-					
Attachment(s)									
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date									
3) Notice of Informat Patent Application									
Paper No(s)/Mail Date <u>9/13/06</u> . 6) ☐ Other:									

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DETAILED ACTION

FIRST ACTION ON THE MERITS

Claims 1-24 are currently pending in the instant application.

In response to the Non-final rejection office action mailed on June 13, 2006, Applicants amended claims 6, 10, 12-18, and 23 and added claim 24. Indication of allowable subject matter in claims 1, 3-9, 11 and 19 in the previous Office Action is withdrawn due to the presence of 35 U.S.C. 112 issues that will be discussed in detail below.

I. Information Disclosure Statement

The information disclosure statement (IDS) submitted on September 13, 2006 is in partial compliance with the provisions of 37 CFR 1.97 because a missing English translation or concise explanation of the relevance of the reference. Accordingly, the information disclosure statement in-part has been considered by the examiner.

II. Rejection(s)

Claim Rejections - 35 USC § 112, 1st paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3-9, 11, 19, 20 and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The "derivative" of the compounds of Claims 1, 3-9, 11, 19, 20 and 23 are not defined in the

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specification so as to know the structures of the compounds that are included and/or excluded by the term. Therefore, the specification lacks adequate support for Claims 1, 3-9, 11, 19, 20 and 23.

Claim 12 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In *In re Wands*, 8 USPQ2d 1400 (1988), factors to be considered in determining whether a disclosure meets the enablement requirement of 35 U.S.C. § 112, first paragraph, have been described. They are:

- 1. the nature of the invention,
- 2. the state of the prior art,
- 3. the predictability or lack thereof in the art,
- 4. the amount of direction or guidance present,
- 5. the presence or absence of working examples,
- 6. the breadth of the claims,
- 7. the quantity of experimentation needed, and
- 8. the level of the skill in the art.

The nature of the invention

Applicants are claiming a method of preventing or treating a disease. See, for example, instant claim 12. Further, Applicants fail to identify diseases or disorders that can be treated by using the product of claim 1. From the reading of the specification, it

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appears that Applicants are asserting that the embraced compounds, because of their mode of action would be useful in treating any disease.

The state of the prior art and the predictability or lack thereof in the art

The state of the prior art is that the prevention or treatment of Alzheimer's disease, for example, remains highly unpredictable. The various types of diseases have different causative agents, involve different cellular mechanisms, and consequently, differ in treatment protocol. It is the state of the art that there is no known cure or prevention for Alzheimer's disease and that there are only four medications available in the United States available to temporarily slow the early stages of Alzheimer's disease. The current drugs for the treatment of Alzheimer disease, Aricept, Exelon, Reminyl and Cognex, treat early stages of Alzheimer's disease by delaying the breakdown of acetylcholine. Memantine, which blocks excess amounts of glutamate treats late stage Alzheimer's disease.

(<URL:http://www.cnn.com/2003/HEALTH/conditions/09/24/alzheimers.drug.ap/index.ht ml>.)

In addition, Layzer, Cecil Textbook of Medicine (article enclosed), states that "some degenerative diseases are difficult to classify because they involve multiple anatomic locations" (see page 2050). Alzheimer's disease has traditionally been very difficult or impossible to prevent or even to treat effectively with chemotherapeutic agents (See e.g., the Cecil Textbood of Medicine, 20th edition (1996), Vol. 2, page 1994). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary

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knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.

The amount of direction or guidance present and the presence or absence of working examples

There is no evidence of record, which would enable the skilled artisan in the identification of the people who have the potential of becoming afflicted with the numerous diseases or disorders claimed herein. That a single class of compounds can be used to treat all diseases. Applicants have not provided any competent evidence or disclosed tests that are highly predictive for the pharmaceutical use for treating or preventing any or all conditions by administering the instant claimed compounds.

The breadth of the claims

The breadth of the claims is preventing or treating a disease, generically embraced in the claim language.

The quantity of experimentation needed

The nature of the pharmaceutical arts is that it involves screening <u>in vitro</u> and <u>in vivo</u> to determine which compounds exhibit the desired pharmacological activities for each of the diseases and disorders instantly claimed. The quantity of experimentation needed would be undue when faced with the lack of direction and guidance present in the instant specification in regards to testing all diseases and disorders generically embraced in the claim language, and when faced with the unpredictability of the pharmaceutical art. Thus, factors such as "sufficient working examples", "the level of

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skill in the art" and predictability, etc. have been demonstrated to be sufficiently lacking in the instant case for the instant method claims.

The level of the skill in the art

Even though the level of skill in the pharmaceutical art is very high, based on the unpredictable nature of the invention and state of the prior art and lack of guidance and direction, one skilled in the art could not use the claimed invention without undue experimentation.

Claims 19 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As stated in the MPEP 2164.01 (a), "There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue."

In *In re Wands*, 8 USPQ2d 1400 (1988), factors to be considered in determining whether a disclosure meets the enablement requirement of 35 U.S.C. 112, first paragraph, have need described. They are:

- 1. the nature of the invention,
- 2. the state of the prior art,
- 3. the predictability or lack thereof in the art,
- 4. the amount of direction or guidance present,

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- 5. the presence or absence of working examples,
- 6. the breadth of the claims,
- 7. the quantity of experimentation needed, and
- 8. the level of the skill in the art.

In the instant case

The nature of the invention

The nature of the invention is a process for preparing a pharmaceutical composition with at least one product of claim 1 and at least one further compound selected from excipients, adjuvants and pharmaceutical active ingredients.

The state of the prior art and the predictability or lack thereof in the art

It is the state of the prior art that the term "pharmaceutical active ingredients" found in the claims is defined as the substance in a drug that is pharmaceutically active. A dosage form of a drug is traditionally composed of two things: the active ingredient and excipient, which is the substance of the tablet, or the liquid the active ingredient is suspended in.

(<URL:http://en.wikipedia.org/wiki/Active_pharmaceutical_ingredients>.)

For example, the pharmaceutical active ingredients could be selected from the following: antacids, beta-receptor blocker, ACE Inhibitor, antidepressant, NSAIDS, antibiotice, etc.

There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.

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The amount of direction or guidance present and the presence or absence of working examples

The only direction or guidance present in the instant specification is minimal. The specification is unclear to what pharmaceutical active ingredients applicant considers suitable to use in preparation of the pharmaceutical composition containing at least one product of claim 1. Pharmaceutical active ingredients is not defined in the specification. There are no working examples present for the use of a specific pharmaceutical active ingredient.

The breadth of the claims

The breadth of the claims is a process for preparing a pharmaceutical composition with at least one product of claim 1 and at least one further compound selected from excipients, adjuvants and pharmaceutical active ingredients.

The quantity of experimentation needed and the level of the skill in the art

The nature of the pharmaceutical arts is that it involves screening <u>in vitro</u> and <u>in vivo</u> to determine which compounds exhibit the desired pharmacological activities for each of the diseases and disorders instantly claimed. The quantity of experimentation needed would be undue when faced with the lack of direction and guidance present in the instant specification in regards to preparing pharmaceutical compositions with all pharmaceutical active ingredients generically embraced in the claim language, and when faced with the unpredictability of the pharmaceutical art. Thus, factors such as

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"sufficient working examples", "the level of skill in the art" and predictability, etc. have been demonstrated to be sufficiently lacking in the instant case for the instant method claims.

Even though the level of skill in the pharmaceutical art is very high, based on the unpredictable nature of the invention and state of the prior art and lack of guidance and direction, one skilled in the art could not use the claimed invention without undue experimentation.

Claim Rejections - 35 USC § 112, 2nd paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-9, 11, 19, 20 and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 3-9, 11, 19, 20 and 23 are indefinite for the reasons set forth above under 35 U.S.C. 112, first paragraph. Claims 1, 3-9, 11, 19, 20 and 23 are drawn to the derivatives of compounds in Claim 1. However, the "derivative" of the compounds of Claims 1, 3-9, 11, 19, 20 and 23 are not defined in the claims so as to know the metes and bounds of the claims. Therefore, the claims are indefinite.

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Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP §2172.01. The omitted steps are the reagents used and specific steps of preparing the composition recited in Claim 19. Appropriate correction is needed.

III. Objections

Dependent Claim Objections

Dependent Claims 2-24 are also objected to as being dependent upon a rejected based claim. To overcome this objection, Applicant should rewrite said claims in an independent form and include the limitations of the base claim and any intervening claim.

IV. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawquia Young whose telephone number is 571-272-9043. The examiner can normally be reached on 7:00 AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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